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ATTORNEY DOCKET NO. 045636-5083

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Patrice MARCHE *et al.*

Application No.: 10/581,814

Filed: June 5, 2006

For: METHOD FOR QUANTITATIVE
EVALUATION OF A REARRANGEMENT
OR A TARGETED GENETIC
RECOMBINATION OF AN INDIVIDUAL
AND USES THEREOF

Group Art Unit: Unassigned

Examiner: Unassigned

Commissioner for Patents
MAIL STOP PCT

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §
1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO-1449. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed documents are attached. Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form.

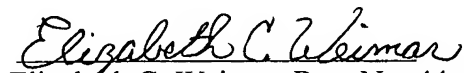
This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If it should be determined that any of the listed documents constitute "prior art" under United States law, Applicants reserve the right to present to the office the relevant

facts and law regarding the appropriate status of such document. Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 50-0310.

Respectfully submitted,

MORGAN, LEWIS & BOCKIUS LLP



Elizabeth C. Weimar, Reg. No. 44,478

Date: February 26, 2007

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**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

PTO Form 1449
Page 1 of 4, dated February 27, 2007Attorney Docket No.
045636-5083Serial No.
10/581,814Applicants
Patrice MARCHE, et al.Filing Date
June 5, 2006Group
Unassigned**U.S. PATENT DOCUMENTS**

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub Class	Translation YES NO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1.	ALLISON, T. J., et al.: "Structure of a Human $\gamma\delta$ T-Cell Antigen Receptor", Nature, vol 411, pp 820-824, 2001
2.	ARSTILA, T. P., et al.: "A Direct Estimate of the Human $\alpha\beta$ T Cell Receptor Diversity", Science, vol 286, pp 958-961, 1999
3.	BASSING, C.H., et al.: "The Mechanism and Regulation of Chromosomal V(D)J Recombination", Cell, vol 109, pp S45-S55, 2002
4.	BASSING, C. H., et al.: "Recombination Signal Sequences Restrict Chromosomal V(D)J Recombination Beyond the 12/23 Rule", Nature, vol 405, pp 583-586, 2000
5.	CABANIOLS, J. P., et al.: "Most α/β T Cell Receptor Diversity Is Due to Terminal Deoxynucleotidyl Transferase", Journal of Experimental Medicine, vol 194(9), pp 1385-1390, 2001
6.	CAPONE, M., et al.: "Kinetics of T Cell Receptor Beta, Gamma, and Delta Arrangements During Adult Thymic Development: T Cell Receptor Rearrangements Are Present in CD44+CD25+Pro-T Thymocytes", Proceedings of the National Academy of Sciences of the United States of America, vol 95, pp 12522-12527, 1998
7.	CASROUGE, A., et al.: "Size Estimate of the $\alpha\beta$ TCR Repertoire of Naive Mouse Splenocytes", The Journal of Immunology, vol 164, pp 5782-5787, 2000
8.	COWELL, L. G., et al.: "Prospective Estimation of Recombination Signal Efficiency and Identification of Functional Cryptic Signals in the Genome by Statistical Modeling", Journal of Experimental Medicine, vol 197(2), pp 207-220, 2003

Examiner

Date Considered

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

9.	DAVODEAU, F., et al.: "The Tight Interallelic Positional Coincidence That Distinguishes T-Cell Receptor J α Usage Does Not Result From Homologous Chromosomal Pairing During V α J α Rearrangement", The EMBO Journal, vol 20(17), pp 4717-4729, 2001
10.	DIETRICH, P. Y., et al.: Prevalent Role of TCR α -Chain in the Selection of the Preimmune Repertoire Specific for a Human Tumor-Associated Self-Antigen", Journal of Immunology, vol 170, pp 5103-5109, 2003
11.	FINK, P. J., et al.: "H-2 Antigens of the Thymus Determine Lymphocyte Specificity", Journal of Experimental Medicine, vol. 148, pp 766-775, 1978
12.	GALLAGHER, M., et al.: "Both TCR α and TCR δ Chain Diversity Are Regulated During Thymic Ontogeny", The Journal of Immunology, vol 167, pp 1447-1453, 2001
13.	HAMROUNI, A., et al.: "T Cell Receptor Gene Rearrangement Lineage Analysis Reveals Clues for the Origin of Highly Restricted Antigen-specific Repertoires", Journal of Experimental Medicine, vol 197(5), pp 601-614, 2003
14.	HENNECKE, J., et al.: "T Cell Receptor-MHC Interactions Up Close", Cell, vol. 104, pp 1-4, 2001
15.	HUANG, C. Y., et al.: "Ordered and Coordinated Rearrangement of the TCR α Locus: Role of Secondary Rearrangement in Thymic Selection", The Journal of Immunology, vol 166, pp 2597-2601, 2001
16.	KRANGEL, Michael S., "Gene Segment Selection in V(D)J Recombination: Accessibility and Beyond" Nature Immunology, vol 4(7), pp 624-630, 2003

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17.	LEE, A. I., et al.: "A Functional Analysis of the Spacer of V(D)J Recombination Signal Sequences", PLoS Biology, vol 1(1), pp 56-69, 2003
18.	MAUVIEUX, L., et al.: "T Early Alpha (TEA) Regulates Initial TCRVAJA Rearrangements and Leads to TCRJA Coincidence", The European Journal of Immunology, vol 31, pp 2080-2086, 2001
19.	McBLANE, F., et al.: "Stimulation of V(D)J recombination by Histone Acetylation", Current Biology, vol 10, pp 483-486, 2000
20.	McBLANE, J. F., et al.: "Cleavage at a V(D)J Recombination Signal Requires Only RAG1 and RAG2 Proteins and Occurs in Two Steps", Cell, vol 83, pp 387-395, 1995
21.	McMURRY, M. T., et al.: "A Role for Histone Acetylation in the Developmental Regulation of V(D)J Recombination", Science, vol 287, pp 495-498, 2000
22.	MOSTOSLAVSKY, R., et al.: "Chromatin Dynamics and Locus Accessibility in the Immune System", Nature Immunology, vol 4(7), pp 603-606, 2003
23.	PERNOLLET, M., et al.: Simultaneous Evaluation of Lymphocyte Subpopulations in the Liver and in Peripheral Blood Mononuclear Cells fo HCV-Infected Patients: Relationship With Histological Lesions", Clinical and Experimental Immunology, vol 130, pp 518-525, 2002
24.	SAITO, T., et al.: "Surface Expression of Only $\gamma\delta$ and/or $\alpha\beta$ T Cell Receptor Heterodimers by Cells With Four (α , β , γ , δ) Functional Receptor Chains", Journal of Experimental Medicine, vol 168, pp 1003-1020, 1988
25.	SPICUGLIA, S., et al.: "Promoter Activation by Enhancer-Dependent and -Independent Loading of Activator and Coactivator Complexes", Molecular Cell, vol 10, pp 1479-1487, 2002

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26.	STRAHL, B. D., et al.: "The Language of Covalent Histone Modifications", Nature, vol 403, pp 41-45, 2000
27.	VAN GENT, D. C., et al.: "The RAG1 and RAG2 Proteins Establish the 12/23 Rule in V(D)J Recombination", Cell, vol 85, pp 107-113, 1996
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29.	VILLEY, I., et al.: "Defect in Rearrangement of the Most 5' TCR-J α Following Targeted Deletion of T Early α (TEA): Implications for TCR α Locus Accessibility", Immunity, vol 5, pp 331-342, 1996
30.	WANG, F., et al.: "Rapid Deletion of Rearranged T Cell Antigen Receptor (TCR) Va-J α Segment by Secondary Rearrangement in the Thymus: Role of Continuous Rearrangement of TCR α Chain Gene and Positive Selection in the T Cell Repertoire Formation", Proceedings of the National Academy of Sciences of the United States of America, vol 95, pp 11834-11839, 1998

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